Khuat Quang An (Andy Quang)

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Education

FPT University   Hoa Lac, VN
Bachelor of Computer Science
Cumulative GPA: 3.4/4
Relevant Coursework: Data Analysis, Artificial Intelligence , Image Processing , Software Engineering; Operating Systems; Algorithms;

Companies

CMC Global   June 2024 - Present
Fullstack Engineer

VMO Global   June 2023 - June 2024
Frontend Engineer

Freelance   Since Jan 2020
Fullstack Engineer

Skills

Technical Skills: Typescript, Javascript, HTML/CSS, Golang, Python, Graphql, , CI/CD with Github Actions, AWS cloud services, Docker , Terraform , apply coding and architectural patterns

Notable skills: building LLMs powered application with domain knowledge via LangChain framework, design and implement microservices with event-driven architecture with saga pattern.

Frameworks and libraries: Nextjs, React, React Native, Angular, React Native, NestJs, ExpressJs, Gin, FastAPI, LangChain

MessageQueues: Kafka , SQS

Databases: Postgres, DynamoDb, MongoDB , Redis.

Devops: Docker, Docker compose, Terraform.

Platform: AWS , Vercel , Cloudflare

Languages: Fluent in English, Vietnamese

Certifications & Training: AWS Certified Solutions Architect Associate 2024 (Udemy), IELTS certificate by British Council.

Experiences

Fintech app – Senior FullStack Engineer   Jan 2025 – Present

A large-scale, cloud-native fintech platform supporting end-to-end loan processing, real-time user workflows, and third-party vendor integrations. The system is built on a **microservices and event-driven architecture**, handling high-volume asynchronous communication, external SMS providers, and secure authentication flows while prioritizing reliability, scalability, and observability.

- Contributed to a large-scale **fintech platform comprising 200+ microservices**, collaborating with a **20-member cross-functional team** across regions.
- Worked across a diverse technology stack including **Node.js, NestJS, React, PHP, Python, and Go**, delivering features and maintaining services in a polyglot microservices environment.
- Designed and implemented services following **event-driven architecture** best practices to enable scalable, loosely coupled systems.
- Lead and contributed to the **migration of SMS services from Twilio to SMSGlobal**, participating in architectural design and rollout planning.
- Utilized **LaunchDarkly feature flags** to enable gradual, low-risk deployments and ensure service stability during the migration, adhering to **Serverless Framework best practices**.
- Built a unified **SMS webhook service** compatible with both Twilio and SMSGlobal by applying the **Adapter design pattern**, improving code modularity, extensibility, and long-term maintainability.
- Designed and integrated both **GraphQL and RESTful APIs** to support real-time workflows and user-driven actions across multiple services, leveraged advanced GraphQL features to create efficient and flexible APIs, optimizing data fetching and reducing over-fetching, thus improving application performance and user experience.
- Utilized **AWS services** including **ECS, Lambda, SQS, EventBridge, and DynamoDB** to support container orchestration, asynchronous messaging, and highly available serverless workloads.
- Improved system observability by leveraging **CloudWatch Logs Insights** and **Datadog** for monitoring, debugging, and performance analysis.
- Ensured high code quality, performance, and accessibility through **CI/CD pipelines**, automated testing, and consistent code review practices.
- Actively participated in **Agile development processes**, contributing to sprint planning, code reviews, and retrospectives to continuously improve delivery velocity and code quality.

Key Achievements
- Successfully migrated the SMS provider from **Twilio to SMSGlobal** with **stable p99 latency and error rates**, ensuring no degradation in message delivery performance or user experience post-migration..
- Designed and deployed a **unified SMS webhook** supporting multiple vendors (Twilio and SMSGlobal), improving system flexibility while reducing duplicated logic across services.
- Implemented **end-to-end observability** for SMS workflows using **Datadog**, including structured logging, metrics, and alerts, enabling faster incident detection and troubleshooting.
- Contributed to faster release cycles and higher stability via improved CI workflows and backend logging.
Technologies: **Serverless Framework, AWS EventBridge, AWS lambda , AWS DynamoDB , Lauchdarkly , Datadog , AWS SQS PostgresSQL, Auth0, Prisma ,NestJs , Nodejs , React, …**

Northstar - **Lead Frontend Developer**   Jun 2024 – April 2025

Led development and maintenance of critical features for the Northstar fintech platform, implementing advanced React and Next.js optimization strategies, intelligent automation workflows, real-time collaboration systems, and enterprise CRM integrations to deliver a comprehensive financial technology solution that drives operational efficiency and customer engagement.

- Architected and maintained core features of an **fintech web application**, enhancing application performance through strategic implementation of **React and Next.js best practices**, including advanced component optimization, **code splitting**, **lazy loading**, and efficient server side data fetching strategies, resulting in measurable **improvements to load times, user experience, and overall platform functionality**
- Engineered an intelligent **LLM-powered chatbot** leveraging the **LangChain framework** with **Retrieval-Augmented Generation (RAG)** architecture, enabling **domain-specific knowledge** retrieval and contextual responses, successfully integrating conversational AI capabilities into the existing business application to **enhance customer engagement**

- Integrated **bi-directional data syncing** with CRM platforms such as HubSpot and Pipedrive, streamlining data ingestion and outbound workflows, upheld **best coding practices and design patterns** such as **strategy pattern and adapter pattern** to improve extensibility, maintainability and scalability, reduce code coupling.
- Built an intuitive drag-and-drop workflow builder using **React Flow**, empowering users to **visually design complex automation workflows** through seamless node creation, connection, and management, significantly **reducing configuration complexity** and improving user adoption.
- Developed **a sophisticated multi-step collaborative form** system with **real-time synchronization** using **Liveblocks**, supporting **concurrent multi-user interactions** with **conflict resolution**, presence indicators, and instant state propagation across all connected clients
- Delivered innovative solutions to complex client requirements by building modern, responsive, and visually sophisticated user interfaces, translating intricate business logic into intuitive user experiences while maintaining high code quality and performance standards.

Key Achievements
- Developed features that add values to the company and customer.
- Multiple users reported that the webpage felt more responsive after we pushed new changes .
- Achieved a **40% reduction** of the webpage's Largest Contentful Paint (LCP) and **50% reduction** First Input Delay(FID) through optimization techniques such as lazy loading and CSS minification.
- Effectively developed complex features tailored to user workflows, enhancing daily tasks and attracting more customers to the company.
- Notable Technologies: **NextJs, LangChain, ReactFlow, Liveblocks, Neon, PostgresQL, Prisma,** …

HQ Home- Lead Fullstack Developer   Jan 2023 – Dec 2025

Architected and **developed from the ground up** a modern, **high-performance e-commerce platform** for an established home appliance and tiles distribution brand, transforming their digital presence and delivering an exceptional shopping experience through Next.js, TypeScript, and cutting-edge web technologies.

- Designed and implemented a **robust, scalable system architecture and relational database schema** to support **complex product modeling** with **hierarchical category structures**, **dynamic attribute systems**, and **flexible variant management**, enabling **efficient handling of diverse product catalogs** with custom specifications
- Partnered with **non-technical stakeholders** to translate business requirements into practical technical solutions, ensuring alignment between platform capabilities and business objectives while gathering iterative feedback
- Engineered a **comprehensive multi-language solution** using react-i18next, implementing **dynamic locale switching**, **RTL/LTR layout support**, and **SEO-optimized internationalized** routing to ensure seamless user experience across multiple regions and languages
- Enhanced user engagement and interface polish by integrating sophisticated animations, micro-interactions, and responsive design patterns, creating an intuitive and visually compelling shopping experience that improved user retention and conversion rates
- Optimized Core Web Vitals and search performance using Next.js SSR/SSG/ISR strategies, automatic image optimization, code splitting, and mobile-first responsive design, while implementing canonical URLs, hreflang tags for internationalization, and proper redirect strategies to maximize search engine visibility
- Technologies: **NextJS, Tailwind CSS ,Postgres**

Key Achievements:
- Achieved **first-page Google rankings** for 50+ competitive keywords and increased organic traffic by 100%
- Achieved consistent 90+ Lighthouse scores across all Core Web Vitals metrics(LCP, CLS , INP)